|              | Index of Claims Ap |          |                 |           |           |           |          |          |          |                     |           |              |                             | Application No. |                    |            |                |              |              |              |           |          |          | Applicant(s) |            |               |          |                    |          |          |                 |         |   |  |
|--------------|--------------------|----------|-----------------|-----------|-----------|-----------|----------|----------|----------|---------------------|-----------|--------------|-----------------------------|-----------------|--------------------|------------|----------------|--------------|--------------|--------------|-----------|----------|----------|--------------|------------|---------------|----------|--------------------|----------|----------|-----------------|---------|---|--|
|              | ·                  |          |                 |           |           |           |          |          |          |                     |           |              |                             |                 | 10                 | 10/690,979 |                |              |              |              |           |          |          |              |            | ARNOLD ET AL. |          |                    |          |          |                 |         |   |  |
|              |                    |          |                 |           |           |           |          |          |          |                     |           |              |                             |                 | Examiner           |            |                |              |              |              |           |          |          |              | Art Unit   |               |          |                    |          |          |                 |         |   |  |
|              |                    |          |                 |           | Ш         |           |          |          |          |                     |           |              |                             |                 |                    |            | Leon Y Lum     |              |              |              |           |          |          |              |            |               |          |                    |          |          |                 |         |   |  |
| <del> </del> |                    |          |                 |           |           |           |          |          | ••••     |                     |           |              |                             |                 |                    |            | Le             | on           | <u>Y</u>     | Lu           | m         |          |          |              | _          |               | 16       | 1641               |          |          |                 |         |   |  |
|              |                    |          | П               |           |           |           |          | 1        |          | П                   |           | Th           |                             | ab.             |                    |            | -1\            | ٦            | ٢            | Т            |           |          |          |              |            |               |          |                    |          |          | $\neg$          |         |   |  |
|              |                    |          | √               | R         | eje       | cte       | ed       |          |          | -                   | (         | ın           | Through numera<br>Cancelled |                 |                    |            | 31 <i>)</i>    |              |              | N            | Non-Elect |          |          | ted          |            | A             | Appeal   |                    |          |          |                 |         |   |  |
|              |                    |          |                 |           |           |           |          |          |          |                     |           |              |                             |                 |                    |            |                | $\dashv$     | ŀ            | +            |           | -        |          |              | $\dashv$   | H             |          |                    |          |          |                 |         |   |  |
|              |                    |          | =               | Α         | llo       | we        | d        |          |          | ÷                   |           |              | Re                          | Restricted      |                    |            |                |              |              | 1            | Int       | erf      | erei     | псе          | 1          | 이             | (        | Obje               | ecte     | þ        |                 |         |   |  |
|              |                    |          |                 |           |           |           |          |          |          | _                   |           |              |                             |                 |                    |            |                |              |              |              |           |          |          |              | $\Box$     |               |          |                    |          |          |                 | -       |   |  |
|              | Cla                | Claim _  |                 |           | Date      |           |          |          |          |                     | $\dashv$  | Claim        |                             |                 |                    | Date       |                |              |              |              |           | $\dashv$ | <u></u>  | laim<br>T    | $\vdash$   | _             |          | Date               |          |          |                 | 4       |   |  |
|              | Final              | Original | 1/14/05         |           |           |           |          |          |          |                     |           |              | Final                       | Original        |                    |            |                |              |              |              |           |          | ١.       | Final        | Original   |               |          |                    |          |          |                 |         |   |  |
|              | ίĒ                 | Oriç     | È               |           |           |           |          |          |          |                     | - [       | 1            | ίĒ                          | Origi           |                    |            |                |              | -            |              |           |          |          | i Ē          | l g        |               |          |                    |          |          |                 |         |   |  |
|              |                    | 1        | +               |           |           | _         |          | $\vdash$ | H        |                     | ┥.        | H            |                             | 51              | $\vdash$           |            | $\dashv$       | +            | +            | -            | $\dashv$  | +        | $\dashv$ | -            | 101        | $\vdash$      | $\dashv$ | +                  | $\vdash$ |          | ╁               | +       | 1 |  |
|              |                    | 2        | +               |           |           |           |          |          |          |                     |           | ļ            |                             | 52              |                    |            | $\perp$        | $\downarrow$ | $\downarrow$ |              |           |          | 1        |              | 102        |               |          |                    |          |          |                 |         |   |  |
|              |                    | 3        | +               |           |           | _         | -        | -        |          | Н                   | $\dashv$  | $\vdash$     |                             | 53<br>54        | $\vdash$           |            | +              | +            | +            | +            | +         | +        | $\dashv$ | -            | 103<br>104 | $\vdash$      | +        | +                  | -        |          | $\vdash \vdash$ | -       | ┨ |  |
|              |                    | 5        | +               |           |           |           |          | ·        |          |                     |           | t            |                             | 55              |                    |            |                | 1            |              |              | 土         |          | 1        |              | 105        |               | 士        |                    |          |          |                 |         | ] |  |
|              |                    | _6<br>7  | +               |           |           |           |          |          |          | Н                   | -         | -            |                             | 56<br>57        | Н                  | _          | $\dashv$       | +            | 4            | 4            | +         | -        | - 1      | L            | 106<br>107 | $\sqcup$      | - -      | 4                  | <u> </u> |          |                 |         |   |  |
|              |                    | - 8      | +               |           |           |           | H        | $\vdash$ |          | H                   | $\dashv$  | 1            |                             | 58              |                    |            | $\dashv$       | ╁            | $\dashv$     | $\dashv$     | +         | +-       | ┨        | $\vdash$     | 107        | ╁╌┧           | $\dashv$ | +                  | $\vdash$ | H        | $\vdash$        | +       | ┨ |  |
|              |                    | 9        | +               |           |           |           |          |          |          |                     | $\exists$ | F            |                             | 59              |                    | $\Box$     | $\dashv$       | 1            | 4            | 1            |           |          | ]        |              | 109        |               |          |                    |          |          |                 |         |   |  |
|              |                    | 10<br>11 | +               |           |           | Н         |          |          |          | Н                   | $\dashv$  | ŀ            |                             | 60<br>61        | $\vdash$           |            | -+             | +            | +            | -            | +         | ╁        | -        | -            | 110        | $\vdash$      |          | +                  | $\vdash$ |          | $\vdash$        | +       | - |  |
|              |                    | 12       | +               |           |           |           |          |          |          |                     |           | Ė            |                             | 62              |                    |            |                | -            | $\exists$    |              |           |          | ┪ .      |              | 112        |               |          |                    |          |          |                 |         | 1 |  |
|              |                    | 13<br>14 | +               | _         |           | _         |          |          |          |                     | _         | ŀ            |                             | 63<br>64        | Ш                  |            | 4              | 4            | 4            | $\perp$      | _         | _        | 4        |              | 113        | $\square$     | _        | -                  |          |          |                 |         |   |  |
|              |                    | 15       | +               |           |           |           |          | -        | -        | Н                   |           | ŀ            |                             | 65              | ╁                  | $\dashv$   | $\dashv$       | +            | +            | +            | +         | +        | ┨.       |              | 114        | $\vdash$      |          | +                  | $\vdash$ |          | $\vdash$        |         | 1 |  |
|              |                    | 16       | +               |           |           |           |          |          |          |                     | $\Box$    |              |                             | 66              |                    |            |                |              | $\Box$       | $\Box$       |           | T        | 1        |              | 116        |               |          |                    |          |          |                 |         | 1 |  |
|              |                    | 17<br>18 | +               |           |           | -         | _        |          | Н        | Н                   | $\dashv$  | ŀ            |                             | 67<br>68        | $\vdash$           | $\dashv$   | +              | +            | $\dashv$     | +            | +         | +        | -        | -            | 117        | $\vdash$      |          | +-                 | ╀        | _        |                 |         | 1 |  |
|              |                    | 19       | +               |           |           |           |          |          |          |                     |           | E            |                             | 69              |                    |            |                |              | 1            |              | 1         |          | 1        |              | 119        |               | 1        | +                  |          |          | $\vdash$        |         | 1 |  |
|              |                    | 20<br>21 | +               |           |           |           |          |          |          | Н                   | _         | F            |                             | 70<br>71        |                    |            | $\dashv$       | 4            | 4            | 4            | 4         | 1        |          |              | 120<br>121 |               | _        | $\perp$            |          |          |                 |         | ] |  |
|              |                    | 22       | +               |           |           | -         |          |          |          |                     | -1:       | ` <b> </b> - |                             | 72              | H                  | $\dashv$   | 十              | +            | $\dashv$     | +            | - -       | +        | ┥        |              | 122        | $\vdash$      |          | ╁                  |          |          | $\dashv$        | +       | - |  |
|              |                    | 23       | +               |           |           |           |          |          |          |                     |           | F            |                             | 73              |                    |            |                | 1            | 1            | $\exists$    |           |          | 1        |              | 123        |               |          | $\top$             |          |          | $\Box$          |         |   |  |
|              |                    | 24<br>25 | +               | -         | -         | -         |          |          | _        | $\vdash$            |           | -            |                             | 74<br>75        | -                  | $\dashv$   |                | +            | +            | +            | +-        | +        | +        | <u> </u>     | 124<br>125 | $\vdash$      | -        | +                  | Н        |          | $\dashv$        | +       | - |  |
|              |                    | 26       | +               |           |           |           |          |          |          |                     |           |              |                             | 76              |                    |            |                | 1            |              |              |           | İ        | 1        |              | 126        |               |          |                    |          |          |                 |         | _ |  |
|              |                    | 27<br>28 | +               | -         | $\dashv$  | $\dashv$  |          |          | -        | $\vdash$            | ╣.        | -            |                             | 77<br>78        | $\left  - \right $ | $\dashv$   | -              | +            | +            | 4            |           | +        | -        | <u> </u>     | 127        | Н             | -        | +                  | $\vdash$ |          | -               | -       | 1 |  |
| ŀ            |                    | 29       | +               | $\exists$ |           | $\square$ |          |          | H        |                     | $\exists$ | -            |                             | 79              | $\vdash$           | $\dashv$   | $\dashv$       | +            | _            | $\dashv$     | _         | +        | 1.       | <u> </u>     | 129        | H             | +        | +                  | H        | H        | $\dashv$        | +-      | 1 |  |
|              |                    | 30       | +               |           |           |           |          |          |          |                     | $\Box$    | F            |                             | 80              |                    |            | $\Box$         | $\bot$       | 1            | _            |           | $\bot$   | ] '      |              | 130        |               | $\Box$   |                    |          |          |                 |         | ] |  |
|              |                    | 31<br>32 | +               | $\dashv$  | -         | $\dashv$  |          | -        | -        |                     | $\dashv$  | ŀ            |                             | 81<br>82        | Н                  | $\dashv$   |                | +            | +            | ╁            | +         | ╁        |          | -            | 131        | $\vdash$      |          | +                  | Н        | H        |                 | +-      | ┨ |  |
|              |                    | 33       | +               |           |           |           |          |          |          |                     |           | Ė            |                             | 83              |                    |            |                |              | 士            |              |           |          |          |              | 133        |               |          |                    |          |          |                 |         |   |  |
|              |                    | 34<br>35 | +               | -         | -         |           |          | H        |          |                     | ┥         | F            |                             | 84<br>85        | $\vdash$           | _          | +              | +            | +            | $\dashv$     | +         | +        | 4        |              | 134<br>135 | $\sqcup$      | -        | -                  | Н        | $\sqcup$ | $\vdash$        | - -     | 4 |  |
| l            |                    | 36       |                 |           |           |           |          |          |          |                     | $\dashv$  | F            |                             | 86              | H                  |            | $\dashv$       | +            | $\dagger$    | $\dashv$     | +         | +        | 1        | _            | 136        | $\vdash$      | +        | +                  | Н        |          | $\vdash$        | +       | 1 |  |
|              |                    | 37       |                 |           |           |           |          |          |          |                     |           | F            |                             | 87              |                    |            | $\blacksquare$ |              |              | $\Box$       | $\perp$   | T        |          |              | 137        |               |          | I                  |          |          |                 | 1       | ] |  |
| }            |                    | 38<br>39 | $\vdash$        |           | $\dashv$  |           | Н        | Н        | Н        | $\vdash$            | $\dashv$  | -            |                             | 88<br>89        | $\vdash$           | $\dashv$   | $\dashv$       | +            | +            | $\dashv$     | +         | +        | -        | $\vdash$     | 138<br>139 | $\vdash$      | +        | +-                 | $\vdash$ | Н        | $\dashv$        | +       | 1 |  |
| ļ            |                    | 40       |                 |           |           |           |          |          |          |                     |           | Ĺ            |                             | 90              |                    |            |                | #            | $\downarrow$ | ightharpoons | $\pm$     | I        | 1        |              | 140        | 口             | 士        |                    |          |          |                 |         | 1 |  |
| ļ            |                    | 41<br>42 | $\vdash \vdash$ | -         |           | $\dashv$  | Щ        | $\vdash$ | $\vdash$ | $\vdash \downarrow$ | $\dashv$  | -            |                             | 91<br>92        | $\vdash$           | $\dashv$   | +              | +            | 4            | +            | +         | +        | 4        | <u> </u>     | 141<br>142 | $\prod$       | $\perp$  | +                  | $\Box$   |          | $oxed{oxed}$    | 4-      | - |  |
| ì            |                    | 43       |                 |           | $\exists$ |           |          | $\Box$   | $\Box$   |                     | $\exists$ | <b> </b>     | _                           | 93              | Н                  | $\dashv$   | _              | $\pm$        | +            | _+           | +         | +        | 1        | <u> </u>     | 143        | $\vdash$      | +        | +                  | $\vdash$ | $\vdash$ | $\dashv$        | +       | 1 |  |
|              |                    | 44       |                 |           |           |           |          |          |          |                     | $\Box$    |              |                             | 94              | П                  | $\dashv$   | 1              |              | 1            | $\Box$       |           | 1        | 1        |              | 144        |               |          | $oldsymbol{\perp}$ |          |          | 口               | $\perp$ | ] |  |
| }            |                    | 45<br>46 | $\vdash \vdash$ | -         | $\dashv$  |           | $\vdash$ | Н        | $\vdash$ | $\vdash$            | $\dashv$  | +            |                             | 95<br>96        | Н                  | $\dashv$   | +              | +            | +            | +            | +-        | +        | +        | <u> </u>     | 145<br>146 | $\vdash$      | +        | +                  | $\vdash$ | H        | $\dashv$        |         | } |  |
| ļ            |                    | 47       |                 |           |           |           |          |          |          |                     | $\Box$    |              |                             | 97              |                    |            |                |              | $\downarrow$ | ゴ            |           | 上        | 1        |              | 147        |               |          |                    |          |          |                 | 士       |   |  |
|              |                    | 48       | LI              |           |           | j         |          | Ш        |          | Ш                   |           | L            |                             | 98              |                    | 1          | _              |              | - [          | - 1          | 1         |          |          | 1            | 148        | ΙĪ            | 1        |                    |          |          |                 |         |   |  |